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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/748,151	1	2/31/2003	Jong-Hwa Lee	P24735	P24735 6984	
7055	7590	11/10/2004		EXAMINER		
GREENBL	LUM & B	ERNSTEIN, P.L.	NGHIEM, MICHAEL P			
1950 ROLA RESTON, '		KE PLACE		ART UNIT	PAPER NUMBER	
				2863		
				DATE MAILED: 11/10/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		10/748,151	LEE ET AL.				
	Office Action Summary	Examiner	Art Unit				
	The MAN INC DATE of the committee of the	Michael P Nghiem	2863				
Period fo	• •						
THE I - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR REPLIMAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a replimation period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a rely within the statutory minimum of thin will apply and will expire SIX (6) MONe, cause the application to become A	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communic BANDONED (35 U.S.C. § 133).	cation.			
Status							
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1 and 2 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1 and 2 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9)[The specification is objected to by the Examine	er.					
	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the	•	, ,				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119						
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau see the attached detailed Office action for a list	ts have been received. ts have been received in A rity documents have been u (PCT Rule 17.2(a)).	application No received in this National Stage	!			
Attachment	• •	,,□	(DTC +42)				
2) 🔲 Notice 3) 🔯 Inforn	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>3-30-2004</u> .	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 				

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DETAILED ACTION

The preliminary amendment filed on December 31, 2003 has been acknowledged.

Claim Objections

- 1. Claims 1 and 2 are objected to because of the following informalities:
- The differences between ψ _M' and ψ ' (claim 1, line 5), θ _M' and θ ' (claim 2, line 2) are unclear.
- "a absolute" (line 10) should be an absolute --.

Appropriate correction is required.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321 may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1 and 2 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-4 of copending Application No. 10/748,152 (Lee et al.). Although the conflicting claims are not identical, they are not patentably distinct from each other because Lee et al. anticipates the claimed invention as follows:

A method (c1) for measuring an absolute steering angle Φ of a steering shaft for a vehicle using a first rotatable body that rotates together with the steering shaft of the vehicle at a predetermined rotation ratio, the method comprising:

- obtaining a ψ _M' value by measuring a relative rotational angle ψ ' of the first rotatable body using a first angle sensor having a measurement range of Ω (c1);
- obtaining a present value for a frequency i-value of the first rotatable body by comparing the present ψ M' value to a previous ψ' value (c2); and
- obtaining a present value for a absolute steering angle $\Phi 1$ of the steering shaft from a present value for an absolute rotational angle ψ of the first rotatable body, using the ψ M' value and the present i-value (c1, c2);
- obtaining a θ _M' value by measuring a relative rotational angle θ ' of a second rotatable body, which is rotating together with the steering shaft at a predetermined rotation ratio, using a second angle sensor having a measurement range of Ω (c1);
- obtaining a present value for a frequency j-value of the second rotatable body by comparing a present θ M' value to a previous θ M' value (c3);
 - obtaining a present value for the absolute steering angle $\Phi 2$ of the steering

shaft from a present value for an absolute rotational angle θ of the second rotatable body, using the θ M' value and the present j-value (c3, c4);

- taking a mean value of the Φ1 and the Φ2 (c4).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Allowable Subject Matter

3. Claims 1 and 2 would be allowable if rewritten or amended to overcome the objection(s) set forth in this Office action and upon filing of a terminal disclaimer.

Reasons For Allowance

4. The method as claimed wherein obtaining a present value for a frequency of the first rotatable body by comparing the present ψ_M value to a previous ψ value (claim 1) is not disclosed, suggested, or made obvious by the prior art of record.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Nghiem whose telephone number is (571)

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272-2277. The examiner can normally be reached on M-H from 6:30AM - 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached at (571) 272-2269. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

MICHAEL NGHIEM
PRIMARY EXAMINER
Michael Nghiem

November 8, 2004